



RPB448Mu01 10 μ g

Recombinant Semaphorin 7A (SEMA7A)

Organism Species: *Mus musculus* (Mouse)

Instruction manual

FOR IN VITRO USE AND RESEARCH USE ONLY
NOT FOR USE IN CLINICAL DIAGNOSTIC PROCEDURES

12th Edition (Revised in Aug, 2016)

[**PROPERTIES**]

Source: Prokaryotic expression.

Host: *E. coli*

Residues: Arg318~Met566

Tags: N-terminal His-Tag

Tissue Specificity: Brain, Testis, Breast.

Subcellular Location: Cell membrane; Lipid-anchor, GPI-anchor; Extracellular side.

Purity: >95%

Traits: Freeze-dried powder

Buffer formulation: 100mM NaHCO₃, 500mM NaCl, pH8.3, containing 1mM EDTA, 1mM DTT, 0.01% sarcosyl, 5%Trehalose and Proclin300.

Original Concentration: 200µg/mL

Applications: Positive Control; Immunogen; SDS-PAGE; WB.

(May be suitable for use in other assays to be determined by the end user.)

Predicted isoelectric point: 8.3

Predicted Molecular Mass: 32.0kDa

Accurate Molecular Mass: 32kDa as determined by SDS-PAGE reducing conditions.

[**USAGE**]

Reconstitute in 100mM NaHCO₃, 500mM NaCl (pH8.3) to a concentration of 0.1-1.0 mg/mL. Do not vortex.

[**STORAGE AND STABILITY**]

Storage: Avoid repeated freeze/thaw cycles.

Store at 2-8°C for one month.

Aliquot and store at -80°C for 12 months.

Stability Test: The thermal stability is described by the loss rate. The loss rate was determined by accelerated thermal degradation test, that is, incubate the protein at 37°C for 48h, and no obvious degradation and precipitation were observed. The loss rate is less than 5% within the expiration date under appropriate storage condition.

[SEQUENCE]

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RVY  GVFSNPWNYS  AVCVYSLGDI  DRVFRTSSLK
GYHMGLPNPR  PGMCLPKKQP  IPTETFQVAD  SHPEVAQRVE  PMGPLKTPLF
HSKYHYQKVV  VHRMQASNGE  TFHVLYLTTD  RGTIHKVVES  GDQDHSFVFN
IMEIQPFHRA  AAIQAISLDA  DRRKLYVTSQ  WEVSQVPLDM  CEVYSGGCHG
CLMSRDPYCG  WDQDRCVSIY  SSQRSVLQSI  NPAEPHRECP  NPKPDEAPLQ
KVSLARNSRY  YLTCPM
    
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[IDENTIFICATION]

RVYGVFSNPWNYSAVCVYSLGDI DRVFRTSSLKGYHMGLPNPRPGMCLPKKQPIPTETFQVADSHPEVAQRVEPMGPLKTPLFHSKYHYQKVVVHR

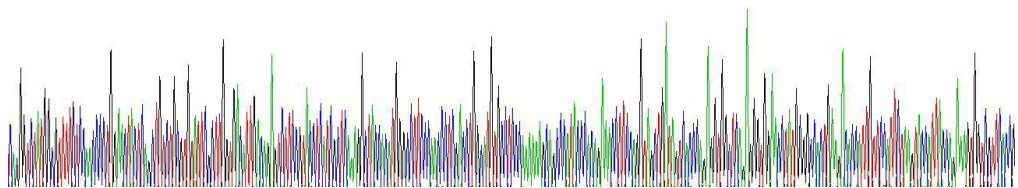


Figure 1. Gene Sequencing (Extract)

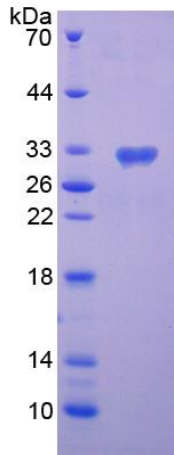


Figure 2. SDS-PAGE